	Application No.	Applicant(s)
Notice of Allowability	10/600,550	COHEN, JONATHAN MICHAEL
	Examiner	Art Unit
	Kimbinh T. Nguyen	2628
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment file 01/23/06</u> .		
2. The allowed claim(s) is/are <u>1-58</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	· ·
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Date	e
Paper No./Mail Date 4.	8. 🛭 Examiner's Stateme	nt of Reasons for Allowance
or biologica Material	9. Other	·

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DETAILED ACTION

1. This action is responsive to amendment filed 01/23/2006.

2. Claims 1-58 are pending in the application.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph Lutz on 3/31/06.

The application has been amended as follows:

Claim 39 (currently Amended) The article of manufacture of claim <u>25</u> (15), wherein computing the color value comprises:

Allowable Subject Matter

4. Claims 1-58 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not teach computing the color value for the point using an importance sampling estimator for a reflected radiance integral; where the importance sampling estimator selects a plurality of ray samples for evaluation of the reflected radiance integral at the point P to generate the color value where ray sample directions are chosen according to information obtained from at least a light source term and a bi-

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directional reflectance distribution function (BRDF) term of the reflected radiance integral.

The prior art does not teach dividing an interval into a plurality of sub-intervals according to the non-overlapping regions such that a length of each respective sub-interval is equal to a normalized weight of the non-overlapping region used to form the sub-interval; selecting a random point X,Y from a unit square; determining a sub-interval containing the X-component of the selected point; mapping the point to the unit square according to a length of the sub-interval; and mapping the point from the unit square to a non-overlapping region corresponding to the determined sub-interval. Selecting a direction to be used as a free parameter of the BRDF term; selecting a direction that is subtended by the selected spherical triangle; computing a product of a value of the BRDF term for the selected free parameter direction times a value of the environment map in the selected direction from the spherical triangle.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimbinh T. Nguyen whose telephone number is (571) 272-7644. The examiner can normally be reached on Monday to Thursday from 7:00

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AM to 4:30 PM. The examiner can also be reached on alternate Friday from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached at (571) 272-7664. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 31 2006

RIMBINH I. NGUYEN PRIMBRY EXAMINER